1. **(Amended)** A method for detecting a predisposition to a sleep disorder in a subject, the method comprising:

analyzing nucleic acid of a subject for the presence of at least one polymorphism in a hypocretin receptor-2 gene, wherein the polymorphism causes an alteration in activity of a hypocretin receptor encoded by the gene;

and wherein the presence of the polymorphism is indicative of a predisposition to the sleep disorder.

2. **(Amended)** The method of claim 1, wherein the polymorphism is in exon 4 of the hypocretin receptor-2 gene.

3. **(Amended)** The method of claim 1, wherein the polymorphism is in exon 6 of the hypocretin receptor-2 gene.

6. **(Amended)** The method of claim 1, wherein the polymorphism in indicative of a sleep disorder characterized by decreased wakefulness.

7. **(Amended)** The method of claim 1, wherein the polymorphism in indicative of a sleep disorder characterized by increased wakefulness or insomnia.

8. **(Amended)** The method of claim 1, wherein the disorder is narcolepsy.

45. **(Amended)** The method of claim 11, wherein the polymorphism encodes a truncated HCRtr2 transcript.